Print-Friendly PRODUCTION OF LIGHTWEIGHT INORGANIC

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Title: PRO

PRODUCT
Abstract: PURPOSE:

PURPOSE: To achieve lightweight while maintaining the strength by replacing part of an inorganic lightweight expanded aggregate with fly ash having 0.5 bulk specific gravity in cement blend of a lightweight inorganic product.

CONSTITUTION: Equal amounts of cement and quartz sand are blended with required reinforcing fiber, a filler and an inorganic lightweight expanded aggregate (perlite, silas balloon, etc.). In the blend of the aforementioned inorganic product, the above-mentioned inorganic lightweight expanded aggregate in an amount of (1/4) to (1/2) based on the total amount thereof is replaced with fly ash having 0.5 bulk specific gravity. The aforementioned fly ash is sufficiently made to reacted with cement grains to form a firm matrix in a state surrounding the expanded aggregate and contribute to the reduction of weight.

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Inventor: Publication Date:

1992-02-13

Application Date:

1990-06-07

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Cites:

Cited By: Intl Class:

[5]C04B003808; [5]C04B001404; [5]C04B001418;

[5]C04B001602; [5]C04B001808; [5]C04B002804 Core: C04B001402 [2006-01]; C04B001600 [2006-01];

C04B001804 [2006-01]; C04B002800 [2006-01];

C04B003808 [2006-01]

Adv: C04B001404 [2006-01]; C04B001418 [2006-01]; C04B001602 [2006-01]; C04B001808 [2006-01]; C04B002804 [2006-01]; C04B003808 [2006-01]

ECLA: US Class:

Field of Search:

JP4042875APRODUCTION OF LIGHTWEIGHT INORGANIC PRODUCT

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FIBER-REINFORCED LIGHTWEIGHT CEMENT

COMPOSITION

aggregates, a plasticizer and water with cement. a closed cellular foam structure, reinforcing fiber, other kneading a lightweight aggregate such as perlite having PURPOSE: To improve formability by adding and

lightweight cement compact. dried and hardened to afford a fiber-reinforced resultant compact is cured under prescribed conditions, kneaded mixture is subsequently press formed and the storementioned cement composition and kneaded. The adequate amount of water is further added to the 100 pts.wt. cement such as blast furnace cement. An and 1-10 pts.wt. plasticizer such as methyl cellulose with such as crushed stone having 0.01-2mm grain diameter pts.wt. reinforcing fiber such as asbestos or pulp having 0.05-5mm fiber length, 50-150 pts.wt. other aggregates grain diameter and 0.15-0.3g/cm 3 bulk density, 5-40 closed cellular foam structure of 0.2-0.8mm average pts.wt. lightweight aggregate such as perlite having a composition is obtained by adding and mixing 30-120 CONSTITUTION: A fiber-reinforced lightweight cement

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Application Date: 1990-08-30 Publication Date: 1992-04-15

Cited By: 0 0 Cites:

[e]C04B001418' [e]C04B00S800' [e]C04B003808' Intl Class:

[2]C04B001438; [2]C04B001448; [2]C04B001e0e [e]C04B00S800² [e]C04B001418² [e]C04B001446²

C04B003808 [S00e-01] COLG: CO4B001405 [5006-01]; CO4B005800 [5006-01];

PAV: C04B001418 [2006-01]; C04B002800 [2006-01];

C04B003808 [S009-01]

ECLA:

Abstract:

US Class:

Field of Search: